

LIST OF CURRENT CLAIMS

1. (Currently Amended) A method of audio synthesis capable of reducing CPU load, which uses frequency modulation (FM) to generate a synthetic audio, comprising the steps:

establishing a parameter look-up table;

outputting a wave parameter and a characteristic parameter from a microprocessor to an audio processor;

extracting a modulation parameter and a control parameter from the parameter look-up table by the audio processor based on the wave parameter ~~outputted by the audio processor~~; and

performing frequency modulation to generate the synthetic audio by the audio processor based on the modulation parameter, the control parameter and characteristic parameter.

2. (Original) The method as claimed in claim 1, wherein the parameter look-up table is stored in a read-only memory (ROM).

3. (Currently Amended) The method as claimed in claim 1, wherein the wave parameter ~~has~~ includes a timbre parameter and a scale parameter.

4. (Currently Amended) The method as claimed in claim 3, wherein the timbre parameter is ~~relative~~ corresponding to the modulation parameter.

5. (Currently Amended) The method as claimed in claim 3, wherein the scale parameter is ~~relative~~ corresponding to the control parameter.

6. (Original) The method as claimed in claim 1, wherein the microprocessor is a central processing unit (CPU).

7. (Original) The method as claimed in claim 1, wherein the audio processor is implemented in a sound card.

8. (Original) A system of audio synthesis capable of reducing CPU load, which uses frequency modulation to generate a synthetic audio, comprising:

a microprocessor, to output a wave parameter and a characteristic parameter;

a memory, to store a parameter look-up table of which records a modulation parameter and control parameter corresponding to the wave parameter; and

an audio processor, to input the wave parameter and the characteristic parameter for reading the modulation parameter and the control parameter from the parameter look-up table based on the wave parameter and further performing frequency modulation to produce the synthetic audio based on the modulation parameter, the control parameter, and the property parameter.

9. (Original) The system as claimed in claim 8, wherein the microprocessor is a central processing unit (CPU).

10. (Original) The system as claimed in claim 8, wherein the audio processor is implemented in a sound card.

11. (Currently Amended) The system as claimed in claim 8, wherein the wave parameter ~~has~~includes a timbre parameter and a scale parameter.

12. (Original) The system as claimed in claim 8, wherein the memory is a ROM.

13. (Currently Amended) The system as claimed in claim 11, wherein the timbre parameter is ~~relative~~ corresponding to the modulation parameter.

14. (Currently Amended) The system as claimed in claim 11, wherein the scale parameter is ~~relative~~ corresponding to the control parameter.